

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-158033

(43)Date of publication of application : 21.06.1989

(51)Int.Cl.

C08G 63/62

(21)Application number : 63-240785

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(22)Date of filing : 28.09.1988

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(30)Priority

Priority number : 62243000

Priority date : 28.09.1987

Priority country : JP

## (54) PRODUCTION OF AROMATIC POLYCARBONATE AND CRYSTALLINE AROMATIC POLYCARBONATE

(57)Abstract:

**PURPOSE:** To obtain the title polymer free from chlorine compound without causing the corrosion of the polymerizer, by prepolymerization between a dihydroxydiaryl compound and diaryl carbonate followed by crystallization of the resultant prepolymer and by polymerization on heating while retaining solid phase.

**CONSTITUTION:** First, prepolymerization is carried out under heating between (A) a dihydroxydiaryl compound (component) consisting of (i)  $\geq 85\text{mol}\%$  of dihydroxydiaryllalkane of formula (Ar<sup>1</sup> and Ar<sup>2</sup> are each arylene; Y is alkylene, etc.,) and (ii)  $\leq 15\text{mol}\%$  of another dihydroxydiaryl compound and (B) a diaryl carbonate to prepare a prepolymer with a weight-average molecular weight (Mw) of 2,000 to 20,000 and terminal arylcarbonate group accounting for  $>50\text{mol}\%$  of the total terminal groups. Secondary, this prepolymer is then crystallized to produce a crystallized prepolymer with a degree of crystallinity of 5W55%. Finally, this prepolymer is heated to such a temperature range as to be higher than the glass transition temperature of the final polymer and enable said crystallized prepolymer to retain a solid phase state to raise its polymerization degree, thus obtaining the objective polymer.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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